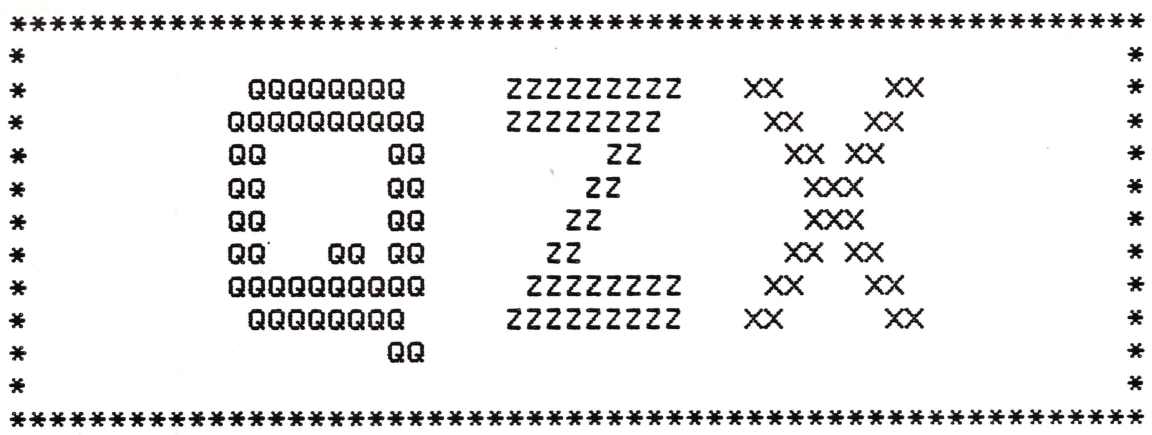

The Journal Covering Amateur Radio & Sinclair Computers
ZX80; Micro-Ace; ZX81; TS1000, 1500, & 2068; QL; Z88

Alex. F. Burr, K5XY, Publisher
2025 O'Donnell Drive
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88001

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EDITOR'S NOTES
K5XY

I received a nice letter from Nazir Pashtoon with some good comments on the use (or rather non-use) of GOTO's in QL SuperBasic. I hope that he will expand his remarks for all our readers. He is thinking of working on a program for the QL to receive CW and RTTY. To that end he would be happy to receive tapes of computer generated, clean morse code (at different speeds), RTTY at different speeds, and CW as well as Packet. He will pay for the shipping and media costs. His address is Nazir A. Pashtoon, 940 BEAU Dr., #204, Des Plaines, IL 60016.

Stuart Ballinger, a subscriber, asked me to mention the Trenton Computer Fair to be held April 22 - 23 in New Jersey. For more information, write Trenton State College, Hillwood Lakes, CN4700, Trenton, NJ 08650-4700.

A new record has been set by T & C Services! They have advertised in QZX longer than anybody else. Their support is very much appreciated. Their ad appears in this issue as usual. Also note their special offer which appears in the unclassifieds.

WA6DLI wrote that almost 10% of our subscribers requested the satellite tapes which he offered to our readers. That was quite a number. He sent a list of those requesting the tapes, and without an exception they were all long time readers of QZX. Bob really went to quite a bit of trouble to provide these tapes - a real service to the Sinclair community. See the article on Tape Libraries for related information.

In this issue is another major program by LU8MAD. It is a program which lets the TS1000 really put a printer through its paces. It comes in two varieties, a simple workprocessor and one with 256 combinations of print styles added. As an example of what can be done, he shows a professional looking QSL card (as well as the Christmas card included in the last issue). The program is unfortunately long and will be hard to type in. Furthermore I cut and pasted it a bit in order to include it without too much waste space.This is the type of program which can be very usefully distributed by the tape library mentioned in the above paragraph. Note also LU8MAD's offer to send an even more sophisticated program.

In coming issues, there will be more programs by LU8MAD (an EPROM programmer and a repeater controller for the TS1000) and a meteor program by WA6DLI. Do not miss these issues.

TAPE LIBRARY
K5XY

One of the big difficulties with sharing software in a diverse and geographiclly scattered group such as ours, is the difficulty of getting it from one person to another. I am sure that those who have tried to type in a long program from QZX are well aware of the difficulty in printing some of the control or reversed characters in a readable fashion. Yet only a few people like WA6DLI can afford the time to occasionally offer to duplicate tapes for our readers. This state of affairs may be changing in the near future.

I have just received notice of a tape library planning to start up. The Sinclair Northamerican Users Group (S.N.U.G.) has put in place an organization to operate a Public Domain Software Library. They have appointed librarians to run separate libraries for the ZX81, TS1000, and TS1500 with 240 programs already collected and the TS2068 with about 850 programs collected. They are also starting libraries for the QL and the Z88. Unfortunately the final

details on how to get the catalog and the tapes have not yet been issued. I also expect that not many of these programs have direct amateur applications. When final arrangements have been made I expect that they will include instructions on how our readers can contribute tapes which all can then get for a reasonable price. When these arrangements are made, they will be announced here.

SUCCESSFULL MATCHING

LATTERLY I HAVE MADE FOR MY FRIEND EDY (LU1MFC) A PARALLEL INTERFACE (SEE QZX OCTOBER 88) FOR USE WITH A COMMODORE MPS1250 PRINTER AND TK85 (TS1000 COMPATIBLE).

THIS PRINTER (MADE BY CITIZEN) IS A 9x9 DOT MATRIX, 120 CPS, BIDIRECTIONAL WITH EPSON AND IBM GRAPHICS CAPABILITY.

MPS1250 IS A FULL-FUNCTION DOT-MATRIX PRINTER THAT ALLOWS YOU TO CREATE PRINTED COPIES OF DOCUMENTS THAT CAN APPEAR IN SEVERAL CHARACTER STYLES, PROGRAMS OR ILLUSTRATIONS YOU DESIGN WITH YOUR TS1000.

IN ADDITION TO LETTERS, NUMBERS, AND PUNCTUATION IN BOTH ROMAN AND ITALIC, THE MPS1250 ALSO HAS MANY ACCENTED CHARACTERS AND GRAPHICS SYMBOLS IN ITS REPERTOIRE.

THE MPS1250 HAS SOME FEATURE THAT ALLOW YOU TO PRINT IN EMPHASIZED, DOUBLE-STRIKE, COMPRESSED, EXPANDED, PROPORTIONAL, ITALICS, UNDERLINING, SUPERSCRIPT, SUBSCRIPT AND REVERSE PRINT.

EXCEPT FOR REVERSE PRINT, ALL OF THESE FEATURES CAN BE COMBINED BETWEEN THEY.

TOGETHER THEY PRODUCE OVER 256 VARIETIES OF PRINT STYLES !

I WAS FACINATED WITH THIS PRINTER AND I HAD WRITTEN TO SANTA AT NORTH POLE ..! WELL, NOW I HAVE A NEW PRINTER THAT RUN WITH MY TS1000.

THIS PRINTER GIVE ME NEW CAPABILITY FOR EXPERIMENTATION WITH WEFAX (BETTER THAT MY OLD SEIKOSHA GP-100AS).

I HAVE WRITTEN SEVERAL PROGRAMS FOR THIS PRINTER.

AS SAMPLES OF GREAT CAPABILITY OF MPS1250 WITH TS1000, YOU CAN SEE A QSL CARD AND A CHRISTMAS CARD MADE WITH THIS PRINTER-COMPUTER COMBINATION AND DEDICATED PROGRAMS.

TWO LIST PROGRAMS FOLLOW THIS ARTICLE: A) SIMPLE PROGRAM WITH WORD PROCESSOR, B) A MORE ELABORATED PROGRAM WITH SAME CAPABILITY OF FORMER PROGRAM, PLUS OVER 256 COMBINATIONS OF PRINT STYLES.

IF ANY BODY WANT A MORE SOPHISTICATE PROGRAM, I HAVE A MORE ELABORATED PROGRAM FOR USE WITH THIS PRINTER. CONTACT ME PLEASE !

73, LU8MAD (GUILLERMO)


```
 1 REM (ML CODES)
 2 GOTO 3000
 4 PRINT "CHARACTERS PER LINE ?"
 5 INPUT M
 6 DIM S(M)
 7 CLS
10 LET C$=""
20 LET L=0
30 IF LEN C$<M THEN GOSUB 8000
32 IF LEN C$>M THEN GOTO 91
40 INPUT B$
50 IF B$="/" THEN GOTO 275
60 IF B$="." THEN GOTO 330
75 IF B$="S" THEN STOP
80 LET C$=C$+B$+" "
90 IF LEN C$<M THEN GOTO 30
91 FOR I=M TO 1 STEP -1
92 IF C$(I)<>" " THEN NEXT I
100 LET E$=(C$( TO I-1)+"                                    ")(1 TO M)
110 LET C$=C$(I+1 TO )
120 LET X=0
130 FOR I=1 TO M
140 IF E$(I)<>" " THEN GOTO 170
150 LET X=X+1
160 LET S(X)=I
170 NEXT I
180 IF E$(M)<>" " THEN GOTO 300
185 PRINT AT L,0;E$
190 LET A=INT (RND*X+1)
195 IF S(A)>M THEN GOTO 190
200 FOR I=M TO S(A)+1 STEP -1
210 LET E$(I)=E$(I-1)
220 NEXT I
230 FOR I=A TO X
240 LET S(I)=S(I)+1
245 NEXT I
250 GOTO 180
275 LET C$=""
276 LET A$=""
277 GOSUB 8025
278 LET A$=" "
279 GOTO 30
300 LET A$=E$
302 GOSUB 8020
310 IF PEEK 16442>4 THEN GOTO 30
340 CLS
350 GOTO 10
380 GOSUB 1000
1010 LET W=PEEK (PEEK 16398+256*PEEK 16399)+128
1030 IF W>255 THEN LET W=W-256
1040 PRINT CHR$ W
1050 RETURN
2000 PRINT AT 0,12;"SETS";TAB 23;"CANCELS"
2010 PRINT
2012 PRINT "1-PICA";TAB 14;"80";TAB 25;"77"
2014 PRINT "2-ELITE";TAB 14;"77";TAB 25;"80"
2016 PRINT "3-ITALIC";TAB 14;"52";TAB 25;"53"
2018 PRINT "4-VERT.ENL.";TAB 13;"104";TAB 24;"117"
2020 PRINT "5-REVERSE";TAB 13;"114";TAB 24;"116"
2022 PRINT "6-EXPANDED";TAB 14;"87 - 1";TAB 25;"87 - 0"
2024 PRINT "7-NLQ";TAB 13;"120 - 49";TAB 24;"120 - 48"
2026 PRINT "8-UNDERLINING";TAB 14;"45 - 1";TAB 25;"45 - 0"
2028 PRINT "9-SUPERSCRIPT";TAB 14;"83 - 0";TAB 25;"84"
2030 PRINT "10-ENPHATIZED";TAB 14;"69";TAB 25;"70"
2031 PRINT "11-COMPRESSED";TAB 14;"15";TAB 25;"18"
2032 PRINT "12-RESET GRAL";TAB 14;"64";TAB 25;"64"
2038 PRINT AT 21,0;"ENTER YOUR CHOICE ( 1 A 12) "
2039 INPUT T
2040 IF T=1 OR T=2 OR T=12 OR T=3 OR T=4 OR T=5 OR T=10 OR T=11 THEN
2042 IF T=6 OR T=7 OR T=8 OR T=9 THEN GOTO 5100
2044 GOTO 2039
2057 GOTO 4000
2100 STOP
```

GOTO 5000 end of line 2040

```
3000 POKE 16388,236
3010 POKE 16389,119
3020 GOTO 9000
4000 PRINT " TYPEWRITER PROGRAM   (LUBMAD)"
4001 PRINT ,,
4002 PRINT "    WITH  WORD PROCESSOR"
4003 PRINT ,,,,
4004 PRINT ,,"USE:"
4006 PRINT ,,"       "".."" 1 LINE FEED."
4008 PRINT ,,"       ""/"" 2 LINE FEED."
4010 PRINT ,,"       ""S"" STOP PROGRAM"
4020 PRINT AT 20,4;"enter TO CONTINUE"
4030 PAUSE 4E4
4035 CLS
4040 GOTO 2000
5000 PRINT AT T+1,12;">";TAB 23;">"
5005 PRINT AT 21,0;"
5010 PRINT AT 18,0;"    ENTER  VALUE"
5012 GOSUB 7000
5016 GOTO 5200
5100 PRINT AT T+1,12;">";TAB 23;">"
5110 PRINT AT 21,0;"
5120 PRINT AT 18,0;"   ENTER  VALUE"
5122 PRINT AT 19,0;"    OF FIRST DATA "
5130 GOSUB 7000
5135 PRINT AT 19,0;"    OF SECOND DATA "
5140 GOSUB 7020
5160 GOTO 5200
5190 STOP
5200 PRINT AT 21,0;"   OTHER DATA ? (Y/N)"
5205 FOR I=1 TO 20
5210 PRINT AT 21,1;">";AT 21,1;" "
5212 NEXT I
5214 INPUT I$
5216 IF I$="Y" THEN GOTO 2000
5218 IF I$="N" THEN GOTO 5300
5220 GOTO 5214
5300 CLS
5310 GOTO 3
6999 STOP
7000 POKE 30848,27
7010 RAND USR 30849
7020 INPUT N
7030 POKE 30848,N
7040 RAND USR 30849
7100 RETURN
8000 PRINT AT L,0;C$
8010 LET A$=C$
8020 RAND USR 30882
8025 LET A$="
"
8026 RAND USR 30882
8027 LET A$=""
8030 RETURN
9000 FAST
9010 LET D=30719
9020 FOR A=16514 TO 16880
9030 LET D=D+1
9040 POKE D,PEEK A
9050 NEXT A
9055 SLOW
9057 GOTO 4000
9060 STOP
```

TYPEWRITER PLUS

```
   1 REM ....
   2 GOTO 3000
   4 PRINT "CHARACTERS PER LINE ?"
   5 INPUT M
   6 DIM S(M)
   7 CLS
  10 LET C$=""
  20 LET L=0
  30 IF LEN C$<M THEN GOSUB 8000
  32 IF LEN C$>M THEN GOTO 91
  40 INPUT B$
  50 IF B$="/" THEN GOTO 2000
  60 IF B$="." THEN GOTO 330
  75 IF B$="S" THEN STOP
  77 IF B$="M" THEN GOTO 2000
  80 LET C$=C$+B$+" "
  90 IF LEN C$<M THEN GOTO 30
  91 FOR I=M TO 1 STEP -1
  92 IF C$(I)<>" " THEN NEXT I
 100 LET E$=(C$( TO I-1)+"                                                    ")(1 TO M)
 110 LET C$=C$(I+1 TO )
 120 LET X=0
 130 FOR I=1 TO M
 140 IF E$(I)<>" " THEN GOTO 170
 150 LET X=X+1
 160 LET S(X)=I
 170 NEXT I
 180 IF E$(M)<>" " THEN GOTO 300
 185 PRINT AT L,0;E$
 190 LET A=INT (RND*X+1)
 195 IF S(A)>M THEN GOTO 190
 200 FOR I=M TO S(A)+1 STEP -1
 210 LET E$(I)=E$(I-1)
 220 NEXT I
 230 FOR I=A TO X
 240 LET S(I)=S(I)+1
 245 NEXT I
 250 GOTO 180
 275 LET C$=""
 276 LET A$=""
 277 GOSUB 8025
 278 LET A$=" "
 279 GOTO 30
 300 LET A$=E$
 302 GOSUB 8020
 310 IF PEEK 16442>4 THEN GOTO 30
 340 CLS
 350 GOTO 10
1050 RETURN
2000 CLS
2010 PRINT
2011 LET K=0
2012 PRINT "        1-LINE 7/72"
2013 LET P=0
2014 PRINT "        2-VERT.ENLARGED"
2016 PRINT "        3-REVERSE PRINT"
2018 PRINT "        4-NLQ"
2020 PRINT "        5-SUPERSCRIPT"
2022 PRINT "        6-PICA"
2024 PRINT "        7-ELITE"
2026 PRINT "        8-PROPORTIONAL"
2028 PRINT "        9-COMPRESSED PRINT"
2030 PRINT "       10-ENPHASIZED PRINT"
2031 PRINT "       11-DOUBLESTRIKE"
2032 PRINT "       12-EXPANDED PRINT"
2033 PRINT "       13-ITALIC"
2034 PRINT "       14-UNDERLINING"
2035 PRINT "       15-RESET"
2036 PRINT "        R-RETURN (OUT OF MENU)"
2037 PRINT AT 21,0;"      ENTER YOUR CHOICE"
2039 INPUT T$
2040 GOTO 2100
2044 GOTO 2039
2057 GOTO 4000
2099 STOP
2100 IF T$="1" THEN GOTO 2200
2102 IF T$="2" THEN GOTO 2210
2104 IF T$="3" THEN GOTO 2220
2106 IF T$="4" THEN GOTO 2230
2108 IF T$="5" THEN GOTO 2240
2110 IF T$="6" THEN GOTO 2250
2112 IF T$="7" THEN GOTO 2260
2114 IF T$="8" THEN GOTO 2270
2116 IF T$="9" THEN GOTO 2280
2118 IF T$="10" THEN GOTO 2290
2120 IF T$="11" THEN GOTO 2300
2122 IF T$="12" THEN GOTO 2310
2124 IF T$="13" THEN GOTO 2320
2126 IF T$="14" THEN GOTO 2330
2128 IF T$="15" THEN GOTO 2340
2129 IF T$="R" THEN GOTO 2520
```

```
2130 GOTO 2039
2200 LET N=49
2202 GOTO 2400
2210 LET N=104
2214 GOTO 2400
2220 LET N=114
2222 GOTO 2400
2230 LET N=120
2232 GOSUB 2500
2234 LET N=49
2236 GOSUB 2504
2238 GOTO 2402
2240 LET N=83
2242 GOSUB 2500
2244 LET N=0
2246 GOSUB 2504
2248 GOTO 2402
2250 LET M=0
2252 GOTO 2600
2260 LET M=1
2262 GOTO 2600
2270 LET M=2
2272 GOTO 2600
2280 LET M=4
2282 GOTO 2600
2290 LET M=8
2292 GOTO 2600
2300 LET M=16
2302 GOTO 2600
2310 LET M=32
2312 GOTO 2600
2320 LET M=64
2322 GOTO 2600
2330 LET M=128
2332 GOTO 2600
2340 LET N=64
2400 GOSUB 2500
2402 GOTO 2039
2410 STOP
2420 LET N=33
2422 GOSUB 2500
2424 LET N=K
2426 GOSUB 2504
2427 IF P=1 THEN RETURN
2428 GOTO 2039
2500 POKE 30848,27
2502 RAND USR 30849
2504 POKE 30848,N
2506 RAND USR 30849
2508 RETURN
2520 CLS
2522 IF K THEN GOSUB 2420
2528 GOTO 4
2600 LET K=K+M
2601 LET P=1
2602 GOTO 2039
2999 STOP
3000 POKE 16388,236
3010 POKE 16389,119
3020 GOTO 9000
4000 PRINT "TYPEWRITER PROGRAM (LUGMAD)"
4001 PRINT ,,
4002 PRINT "    WITH WORD PROCESSOR"
4003 PRINT ,,,,
4004 PRINT ,,"USE:"
4006 PRINT ,,"        "".."" 1 LINE FEED."
4010 PRINT ,,"        ""S"" STOP PROGRAM"
4012 PRINT ,,"        ""M"" MENU"
4020 PRINT AT 20,4;" ""ENTER"" TO CONTINUE"
4030 PAUSE 4E4
4035 CLS
4040 GOTO 2000
5190 STOP
5300 CLS
5310 GOTO 3
6999 STOP
7000 POKE 30848,27
7010 RAND USR 30849
7020 INPUT N
7030 POKE 30848,N
7040 RAND USR 30849
7100 RETURN
8000 PRINT AT L,0;C$
8010 LET A$=C$
8020 RAND USR 30882
8025 LET A$="■"  (GRAPHIC 5)
8026 RAND USR 30882
8027 LET A$=""
8030 RETURN
9000 FAST
9010 LET D=30719
9020 FOR A=16514 TO 16880
9030 LET D=D+1
9040 POKE D,PEEK A
9050 NEXT A
9055 SLOW
9057 GOTO 4000
9060 STOP
9900 REM (c) LUGMAD 1988
```

```
16514  32  15  14  20  13
16519  10  8   16  27  28
16524  0   34  38  36  58
16529  63  40  41  62  60
16534  61  43  45  42  47
16539  59  44  46  32  64
16544  33  91  126 93  94
16549  35  0   0   0   32
16554  33  34  35  36  37
16559  38  39  95  203 127
16564  32  13  214 28  250
16569  97  120 123 214 64
16574  250 107 120 24  60
16579  123 203 191 214 38
16584  250 89  120 123 203
16589  191 214 64  250 121
16594  120 123 214 192 33
16599  31  120 24  12  123
16604  214 128 33  28  120
16609  24  4   123 33  0
16614  120 79  6   0   9

16619  126 201 123 214 38
16624  250 117 120 123 198
16629  27  201 123 198 20
16634  201 123 214 69  201
16639  62  255 201 46  58
16644  128 120 211 243 201
16649  229 195 167 121 205
16654  47  120 225 50  128
16659  120 205 129 120 201
16664  27  219 243 203 127
16669  32  250 195 135 120
16674  27  27  33  230 120
16679  34  22  64  205 28
16684  17  216 35  78  35
16689  70  35  237 67  232
16694  120 229 209 120 177
16699  200 197 213 237 83
16704  234 120 205 236 120
16709  205 47  120 225 50
16714  128 120 205 129 120
16719  209 237 91  234 120

16724  237 75  232 120 11
16729  19  0   237 67  232
16734  120 205 70  15  218
16739  183 120 207 12  201
16744  38  13  0   0   0
16749  0   175 14  6   6
16754  255 16  254 13  185
16759  32  248 219 243 203
16764  127 32  250 175 26
16769  201
```

1 REM codes of typewriter plus program

LU8MAD

QRA: GUILLERMO (BILL) GARCIA

QTH: ESQUIU 6121, V.NUEVA,(5521)MENDOZA
ARGENTINA, SOUTH AMERICA

QSO WITH	CONFIRMING QSO						
WA6DLI	DAY	MONTH	YEAR	UTC	MHZ	RST	MODE
BOB	1	JAN	1989	00.01	21.09	59	RTTY

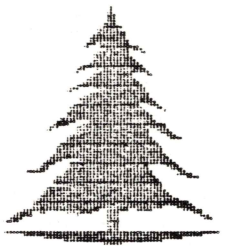
TRANSCEIVER's: HF FT-757GX / FT-707 VHF FT-480R
ANTENNAS:20/15/10 YAGI 3 ELM, 40/20/15/10 VERTICAL, 80M INVERTED L
COMPUTER: SINCLAIR TS1000 ; DATA CONTROLLER: MULTI MODE HOMEBREW
FULLY COMPUTER STATION CONTROL SYSTEM (HOMEBREW) AUTOMATIC ANTENNA
DIRECTION CONTROLLER, TRANSCEIVER CONTROLLER, SATELITE TRACKER,Etc

FIG 1

GUIDE-CROSS
FOR CUTTING

..MERRY CHRISTMAS and HAPPY NEW YEAR !..

HAPPY HOLIDAY GREETINGS FROM:



LU8MAD
GUILLERMO GARCIA

FIG 2

From MENDOZA,
The land of good sun
and goods wines !..

DECEMBER 1988

(716) 834-1716 **T & C SERVICES** (716) 834-1716
20 LIBERTY TERRACE
BUFFALO, N.Y. 14215
Call or write for a free catalog of products for the Timex Computer

READERS

We actually picked up some new readers last month. Unfortunately we lost even more. There are a substantial number of readers who have not renewed for December. If you are one of these, this is the last issue you will receive. If your renewal date is highlighted on the mailing lable, please renew now. If you know of any Sinclair user who might be interested in the information here, please urge them to subscribe.

QZX FRIENDS

WA4BQE -- Ed has been re-elected as the Timex Librarian of the Sinclair Louisville User Group. He also mentioned that he is looking for an address for John M. Bell, the author of a serial port driver program that was published in the Time Design issue of Jan/Feb '88. (For Ed's address see the unclassifieds.) Ed said that he could not get the program to work with the compac printer made for the IBM. He could get Tasword II to frive the printer though.

W4FCJ -- Smitty wrote an unusually interesting letter, which I can not do better than to quote from extensively here. "As offered on page 7 of the December 88 QZX, Bob, WA6DLI, has sent me two excellent satellite tracking programs (TS2068 and TS1000).

The SAT_BAHN program is particularly interesting because of rapid machine-code plotting of the world map. The map is centered on Europe, as one might expect, since the program originated in Germany. I wish that I had the ability to rewrite the machine-code to center the map on North America.

The TS1000 program is the VR-85 version by Vic, W6WNK. A TS2068 adaptation of this program appeared in the September 84 issue of QZX. Since I still use ny TS1000 regularly, I appreciate having this program as backup.

By the way, I find that the W1AW RTTY transmissions at 1330 UTC on Thesdays and Saturdays to be a good source of Keplerian data on amateur satellites. Best frequencies for me are 7.095 and 14.095. My TS1000 with NU4V's NRAP program still does am excellent job.

For packet-radio, I built the Clifford RS-232 interface card and began using Specterm-64. The 64 column display is nice to have, but I have returned to using the MTERM-II program with a modified WC-2050 modem, because the usual commands and use of the buffer are easier for me. Too often, with Specterm-64, I experienced inadvertent loss of stored information in the buffer.

My thanks go to WA6DLI for offering satellite programs and, in particular, for his many excellent contributions to QZX over the years."

W3WPN -- Sol dicided not to renew when his TS1000 no longer responded to the keys, blew up a 16K RAM, and stopped transmitting into the TV monitor. He deserted to an IBM compatible.

W4AT -- Chuck also has an IBM compatible but he still uses his TS1000s (2) for tutorial work and simple applications.

W3NHX -- I received a notice recently that Louis had died. I was particularly sorry to hear this because he is one of our faithful original subscribers.

QL'n PACKET UPDATE
KV3Q, Bob Diggs

READ'n PRINT QLTerm

Here I am again, back in Florida after a month of travel to California, Arizona and Mexico. Being exposed to the PC world in San Diego, made me think about solving some of my problems with QLTerm, especially reading and printing files from QLterm. Our son, Rob, is into the PC in a big way using his computer, not only for his work but, to get all of the public domain games he can because he is a dedicated game buff. I was amazed at the number of games and other things he had copied from the various bulletin boards. I figured if he could get all that stuff, there was no reason why I couldn't do the same with my QL! Incidently, I used his computer to check ino a BBS for Hams. I was sorry I didn't take my TNC with me because there was a lot of packet activity and I was getting good coverage with my Icom 2AT. I 'phoned about the Sinclair users group. They are very informal so don't print a news letter. Unfortunately, we were in Mexico (Our first trip in an RV- I now know I prefer a Sailboat!) on meeting night- it would have been good to go because they sounded like a sharp group.

I have CARE ELECTRONICS QJump, Version 2.00 but don't use it much because, when using Quill, I can load files only from the mdv cartridge I used to start Quill. It does a fine job on Super basic, however. It would be nice to have a switch to turn the toolkit on and off as required. So, in thinking about Rob's activity, I wondered if QJump might be my answer. Lo and behold in the documentation there is a procedure VIEW which is intended to allow a file to be examined in a window on the QL display. The default window is #1, but it can be directed to the printer. The program I use is listed below. I have not tried it on a monitor but have no reason to believe it won't work.

```
10 REMark read file
20 MODE 4
30 WINDOW 425,160,45,0,
40 INPUT "Enter a file:" ! a$
50 VIEW a$
60 INPUT "Copy to printer, y/n?" !
   b$
70 IF b$ ="y" THEN GO TO 100:ELSE
   GO TO 90
90 STOP
100 OPEN#3,ser1:PRINT#3, CHR$(27):
   "M"
120 VIEW #3,a$
130 CLOSE#3
```

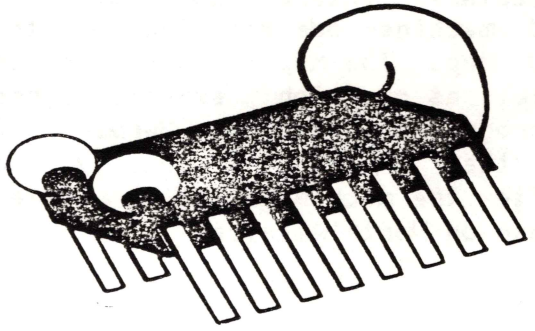
VIEW truncates the lines to fit the width of the window. When the window is full, CNTRL F5 is generated. Line 100 opens the channel to the printer and turns on elite pitch, which I prefer when printing a file.

Finally, as a member of CATS, I must put in a plug for the 1989 CapitalFest, MAY 5th, 6th & 7th at the Washington DC, Howard Johnson Plaza. New Carrollton, MD. sponsored by CATS. For more information drop a line and they will send an information packet:

CATS CAPITALFEST
PO Box 24
Garrett Park, MD 20896
Contact: Audrey Curnett
(301)439 8756
BBS (301)588 0579

Hope to meet many of the QZX gang there!

Best regards,
Bob, KV3Q



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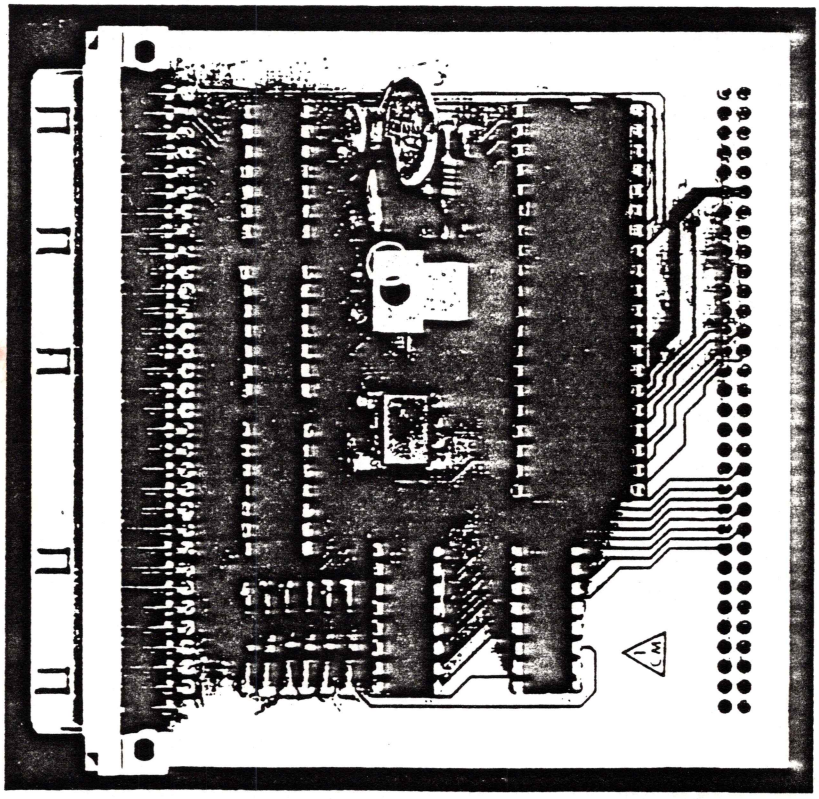

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